

RECEIVED
CENTRAL FAX CENTER

T-227 P.012/018 F-731

OCT 26 2005

Application No. 10/800,308
Page 11 of 18

sealed seams, and the insulation ~~blankets~~ blanket being affixed to the surface of the aircraft component.

51. (Previously presented) The insulated aircraft component of claim 50, wherein the insulation blanket is affixed to the surface of the component with a retention system selected from a group consisting of mated mechanical attachment systems, peel-and-stick tape retention systems, hook-and-loop retention systems, tape, combined hook-and-loop and peel-and-stick tape retention systems, self-adhering retention systems, adhesives, a plurality of mechanical fasteners, and combinations thereof.

52. (Currently amended) An insulated structural component, comprising:
a structural component having at least one surface; and
a modular insulation blanket system comprising a modular insulation blanket, the insulation blanket being comprised of a plurality of batting blocks formed of an insulating material and a cover having sealed perimeter edges, ~~and a plurality of modules, the cover~~ comprising a distal layer and a proximal layer, the layers being mated in sealed relationship along a lattice of longitudinal and latitudinal heat-sealed seams, the seams forming a plurality of modules between the layers, with the batting blocks being disposed between said layers within the modules which are separated by heat-sealed seams, and the insulation ~~blankets~~ blanket being affixed to at least one surface of the structural component.

53. (Previously presented) The insulated structural component of claim 52, wherein the insulation blanket is affixed to the surface of the component with a retention system selected from a group consisting of mated mechanical attachment systems, peel-and-stick tape retention systems, hook-and-loop retention systems, tape, combined hook-and-loop and peel-and-stick tape retention systems, self-adhering retention systems, adhesives, a plurality of mechanical fasteners, and combinations thereof.

BEST AVAILABLE COPY

Application No. 10/800,308
Page 12 of 18

54. (Previously presented) The insulated structural component of claim 52, wherein the insulating material is selected from the group consisting of woven materials, non-woven materials, fibrous insulation materials, mineral wool, fiberglass, and refractory ceramic fibers.

55. (New) A modular insulation blanket, comprising:
a plurality of batting blocks; and
a cover including sealed perimeter edges, a distal layer and a proximal layer, the layers being mated along a plurality of heat-sealed seams;
the plurality of seams forming a plurality of modules between the layers in which the batting blocks are disposed, the modules separated by the seams; and
at least one seam of the plurality of seams including an inner crease formed approximately mid-way between adjacent modules of the plurality of modules.

56. (New) The blanket of claim 55, wherein the at least one seam further includes a pair of creases formed between the adjacent modules, a first crease of the pair formed on a first side of the inner crease and a second crease of the pair formed on a second side of the inner crease.

57. (New) The blanket of claim 56, wherein the inner crease, the first crease of the pair of creases and the second crease of the pair of creases are generally equally spaced from one another between the adjacent modules.

58. (New) The blanket of claim 55, wherein the at least one seam further includes a perforation formed along the inner crease.

59. (New) The blanket of claim 55, wherein at least one of the sealed perimeter edges includes a crease formed along a juncture of the edge with an adjacent module.

NOT AVAILABLE COPY

Application No. 10/800,308
Page 13 of 18

60. (New) The blanket of claim 59, wherein a height of the at least one sealed perimeter edge when folded along the crease is approximately equal to a height of the adjacent module.